

CLAIMS

What Is Claimed Is:

1. A card-edge connector assembly, comprising:
a connector having a slot therein to receive an edge portion of a card having a first actuation surface on the connector; and
a lever mechanism movably coupled to the connector and having a contact surface for contact by a person, the contact surface being moveable between a first position and a second position by the person, and an engaging surface contacting the actuation surface on the card, the engaging surface being in a first position when the contact surface is in the first position and moving into a second position closer to the connector upon movement of the contact surface from the first position to the second position, a distance between the first and second positions being larger than a distance between the first and second locations of the engaging surface.
2. The assembly of claim 1, wherein the first contact surface is a notch.
3. The assembly of claim 1, wherein the second contact surface is a protuberance.
4. The assembly of claim 1, wherein the card is a memory card.

5. The assembly of claim 1, wherein the lever mechanism is a lever pivotally coupled with the connector via a pivot positioned near a base end of the lever.

6. The assembly of claim 5, wherein the engaging member is attached to a first end of the lever.

7. The assembly of claim 1, wherein the engaging member moves a greater distance than a distance traveled by the second contact surface when the lever is moved from the first open position to the second closed position.

8. The assembly of claim 1, further comprising:
an ejector attached to a base end of the lever to remove from the slot the card inserted therein when the lever is moved from the second closed position to the first open position.

9. The assembly of claim 1, further comprising:
a locking mechanism coupled with a lever to lock the lever in the second closed position.

10. The assembly of claim 9, wherein the locking mechanism emits an audible sound as it locks into place.

11. A method comprising:

positioning a bottom edge of a card in a slot formed in a card-edge connector such that a first contact surface on a side edge of the card is positioned to contact an engaging surface of a lever mechanism pivotally coupled with the connector; and

actuating the lever mechanism.

12. The method of claim 11, wherein actuating the lever mechanism further comprises:

moving the card into the slot by moving a contact surface of the lever mechanism from a first position to a second position.

13. The method of claim 11, further comprising:

removing the card from the slot by moving the lever from the second position to the first position.

14. An electrical assembly, comprising:

a connector having a slot therein to receive a memory card, or other add-in card;

a first casing attached to a first end of the connector, the first casing having first and second opposing planar surfaces defining a channel therebetween, and having a hole formed in each planar surface;

a lever mechanism having a first end, a base end, and a middle portion, the lever mechanism having a contact surface movable by a user between a first position and a second position;

an engaging member attached to the first end of the lever;

an ejector attached to the base end of the lever;

an engaging surface attached to a front surface of the lever above the ejector; and

a first and second pivots attached to a first and second sides of the lever, respectively, proximate the middle portion of the lever.

15. The electrical assembly of claim 14, wherein the lever is pivotally coupled with the connector by insertion of the first pivot in one orifice and insertion of the second pivot in the other orifice.

16. The electrical assembly of claim 14, wherein the engaging surface is a protuberance.

17. The electrical assembly of claim 16, wherein the ejector is a protuberance to engage a bottom edge of the memory card.

18. The electrical assembly of claim 14, wherein the lever mechanism is made of plastic.

19. The electrical assembly of claim 14, further comprising:

a printed circuit board attached to a bottom surface of the connector.

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